

AMENDMENTS TO THE SPECIFICATION

Page 1, after the title, insert the following heading and paragraph:

CROSS REFERENCE TO RELATED APPLICATIONS

This application is a continuation of International Application No. PCT/EP02/11859 filed October 23, 2002, the disclosures of which are incorporated herein by reference, and which claimed priority to German Patent Application No. 101 52 423.4 filed October 24, 2001, the disclosures of which are incorporated herein by reference.

Page 1, Line 2, insert the heading:

BACKGROUND OF THE INVENTION

Replace the paragraph beginning on Page 1, Line 11, with the following new paragraph:

A disc brake of the described type is known from WO 99/05011, and corresponding U.S. Patent No. 6,394,235 which is incorporated by reference herein. The forces arising in said disc brake during a braking operation may be subdivided into clamping force (also known as axial force, transverse force, brake application force or normal force) and peripheral force (also known as frictional force). The component of force introduced by a brake shoe into the brake disc at right angles to the plane of the brake disc is described as a clamping force. By peripheral force, on the other hand, is meant the component of force, which on account of the brake friction between a friction lining of the brake shoe and the brake disc acts in peripheral direction of the brake disc upon the brake shoe. By multiplying the peripheral force by the distance of the application point of the peripheral force from the axis of rotation of the wheels, the braking torque may be determined.

Replace the paragraph beginning on Page 2, Line 25, with the following new paragraph:

In DE 196 39 686 A1, and corresponding U.S. Patent No. 6,059,379 which is incorporated by reference herein, a disc brake equipped with force sensors is likewise described. The disc brake possesses two force sensors, which are disposed in each case on a fastening screw, by means of which a caliper is connected to a vehicle-fixed holder. The force sensors are used to detect the peripheral force, which a control device of an electromechanical wheel brake actuator, which is not described in detail, takes into account during setting of the clamping force.

Page 3, Line 10, insert the heading:

SUMMARY OF THE INVENTION

Page 8, Line 16, insert the following paragraph:

Other advantages of this invention will become apparent to those skilled in the art from the following detailed description of the preferred embodiment, when read in light of the accompanying drawings.

Page 8, delete the paragraph in Lines 17 -20.

Page 8, Line 21, insert the heading:

BRIEF DESCRIPTION OF THE DRAWINGS

Page 9, before Line 1, insert the heading:

DETAILED DESCRIPTION OF THE INVENTION

Replace the paragraph beginning on Page 10, Line 7, with the following new paragraph:

The spindle 28 may be coupled to the step-down gear, which is not shown in Fig. 1, in various ways, e.g. by means of a ~~bottom-teeth~~ curved-tooth system. In the case of a curved-tooth system, there is not just a rotationally fixed connection between spindle 28 and step-down gear, but the spindle 28 is movable within a specific angular range about the longitudinal axis B. Transverse forces arising during the rotational movement of the spindle 28 may in said manner be reliably compensated.

Replace the paragraph beginning on Page 11, Line 8, with the following new paragraph:

Inside the cage 40 rigidly coupled to the nut 30 the brake shoe 12, more precisely the carrier plate 18 of the brake shoe 12, is guided so as to be displaceable to a limited extent along the longitudinal axis B. For guiding the brake shoe 12 a plurality of retaining arms ~~58~~ 57 are provided, which are formed on a surface of the carrier disc 50 facing the brake disc 16 and extend substantially at right angles to the carrier disc 50. These retaining arms ~~58~~ 57 engage behind the carrier plate 18 of the brake shoe 12 in such a way that the brake shoe 12 has an axial play s_1 along the longitudinal axis B relative to the nut 30 of the actuator device 26. The retaining arms ~~58~~ 57 therefore, on the one hand, act as a guide for the brake shoe 12 and, on the other hand, restrict the mobility of the brake shoe 12 relative to the actuator device 26 along the longitudinal axis B.

Replace the paragraph beginning on Page 12, Line 1, with the following new paragraph:

The extension 42 is coupled by its one end rigidly to the carrier plate 18 and on its end projecting through the through-opening 62 carries an annular contact washer 46, the outside diameter of which is greater than the diameter of the through-opening 62. The contact washer ~~54~~ 46 is designed so as to interact electrically with an annular contact 48, which is formed on a surface of the base 60 of the indentation 58 remote from the brake disc 16.

Replace the paragraph beginning on Page 13, Line 4, with the following new paragraph:

When, starting from the normal position of the disc brake 10 shown in Fig. 1, the electric motor not shown in Fig. 1 is set in operation in order to generate a clamping force, the step-down ~~thread~~ gear, which is likewise not shown in Fig. 1, transmits a rotational movement of the electric motor to the spindle 28 of the actuator device 26. For generating a clamping force, the direction of rotation of the spindle 28 is selected in such a way that the nut 30 interacting with the spindle 28 is moved in Fig. 1 to the left.

Replace the paragraph beginning on Page 17, Line 15, with the following new paragraph:

A plurality of clamps 82 are slipped over a portion 84 of the carrier disc 50 projecting radially out beyond the nut 30 and over a region of the carrier plate 18 lying opposite said portion 84 and fixes the brake shoe 12 relative to the nut 30. The form springs 76 are formed in each case integrally with the clamps 82 and disposed approximately in the middle between the arms of the clamps 82 embracing the carrier plate 18 and the ~~mounting-74~~ carrier disc 50. More precisely, the form springs 76 are disposed in a gap between the carrier plate 18 of the brake shoe 12 and the carrier disc 50.

Page 19, after Line 13, insert the following paragraph:

In accordance with the provisions of the patent statutes, the principle and mode of operation of this invention have been explained and illustrated in its preferred embodiments. However, it must be understood that this invention may be practiced otherwise than as specifically explained and illustrated without departing from its spirit or scope.

Page 20, Line 2, insert the following introductory phrase:

What is claimed is:

Page 23, Line 1, delete the heading Abstract and insert the heading:

ABSTRACT OF THE DISCLOSURE

Page 23, Line 3, delete the heading:

Disc brake

Page 23, Line 19, delete (Fig. 1).